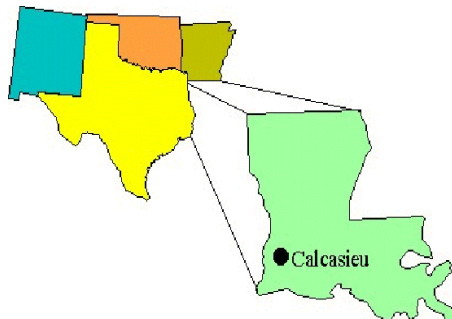


CALCASIEU ESTUARY LOUISIANA

EPA REGION 6 CONGRESSIONAL DISTRICT 7

EPA ID# LAD0002368173
Site ID: 0605134



Contact:
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214-665-7393

Last Updated: June 2015

Effective October 1, 2015 this Site Status Summary will be replaced with a new site profile. The new site profile will be available at: www.epa.gov/superfund/

Current Status

The Calcasieu Estuary includes, but is not limited to, the area of the Calcasieu River from northern Moss Lake up to the salt water barrier in Lake Charles, including Bayou d'Inde, Bayou Verdine, dredged spoil islands, Clooney and Coon Island Loop, and any other area that may be added pursuant to an investigation of the area. The Remedial Investigation (RI) report for Calcasieu Estuary was released by U.S. Environmental Protection Agency (EPA) Region 6 in 2003. The RI report addresses potential threats to human health and the environment related to releases of organic and inorganic chemicals to Calcasieu Estuary from industry located along the estuary. Two areas of concern identified in the RI report are Bayou Verdine and Bayou d'Inde.

Bayou Verdine

EPA has the lead for the non-time critical removal action for the Bayou Verdine area of concern. EPA has entered into a Consent Agreement with local industries to complete the removal action. The Removal Action Workplan for Bayou Verdine was finalized in December 2011 and it details the removal actions necessary for implementing the final remedy selected for Bayou Verdine. The final remedy selected is sediment excavation, consolidation and capping of the contaminated sediments in off-site ponds. The removal action started on September 24, 2012.

The first phase of the removal action work consists of constructing a lined impoundment inside of a local refinery to accept the sediments from the Bayou. Next, sediments will be dredged from Bayou Verdine and placed in the impoundment, then dewatered and the clean water discharged back into Bayou Verdine. At the end of the removal action, the impoundment will have a soil cover placed over the top of sediments after dewatering is complete.

The sediment removal phase of the project was complete in February 2014. The sediments in the lined impoundments have been de-watered and a plastic liner and soil cover is currently being installed over the sediments. The impoundment has been hydro-seeded to establish a protective vegetative cover to prevent erosion. Site decontamination and restoration is complete. EPA has scheduled a Pre-Certification Construction Inspection for the week of June 15, 2015. Post removal sediment sampling, as required under the Consent Decree, began in August 2014 and continues for a period of 30 years.

Additionally, fabric-formed concrete was installed on portions of the bayou shoreline in the Phillips 66 refinery to provide slope protection and prevent the shoreline erosion.

Bayou D'Inde

Following the RI report, the Louisiana Department of Environmental Quality (LDEQ) and EPA Region 6 signed a Memorandum of Agreement on May 6, 2003, designating LDEQ as the lead agency for oversight of corrective action of the Bayou D'Inde site as identified in the RI report. The Corrective Action Study Report, completed by in 2009, documents the development and evaluation of corrective action alternatives for Bayou D'Inde. Following a public hearing and public comment period, LDEQ issued the final Decision Document for Bayou D'Inde in March 2011 which outlines the final corrective action (also called the remedy) selected. The final remedy selected for Bayou D'Inde combines sediment excavation and removal along with in situ capping with Articulated Block Mat (ABM) technology and clean sediments. Mobilization to the site occurred in October 2014 and remedy construction will take place over the next 6 months.

Benefits

Addressing the Calcasieu Estuary contamination will ensure protection of the health of people who harvest marine life in the area and protection of the sensitive estuarine environments.

National Priorities Listing (NPL) History

Site Hazard Ranking System Score: Site has not been proposed

Proposed Date: N/A

Final Date: N/A

Location: The Calcasieu Estuary includes, but is not limited to, the area of the Calcasieu River from northern Moss Lake up to the salt water barrier in Lake Charles, including Bayou d'Inde, Bayou Verdine, dredged spoil islands, Clooney and Coon Island Loop, and any other area that may be added pursuant to an investigation of the area.

Population: 56,120 in Lake Charles, Louisiana.
4,988 in Westlake, Louisiana.

Setting: The area is southwest of Lake Charles, LA, in Calcasieu Parish.

Principal Pollutants: Polychlorinated biphenyls (PCBs), dioxin, mercury, zinc, ethylene dichloride, lead, and copper.

Health Considerations:

- The Risk Assessment found that human consumption of fish and shellfish contaminated with PCBs and dioxin presented unacceptable risks.
- The Calcasieu River, Lake Charles, and Prien Lake are estuarine in nature and have been designated for the usage of primary and secondary contact recreational use and the propagation of fish and wildlife. There are several delineated wetlands considered sensitive environments along Bayou d'Inde, the PPG Canal, and the Calcasieu River.

Record of Decision (ROD)

A ROD has not been issued for the site

Site Contacts

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